

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM PRE-EMPTION FOR THE NORTHBOUND DIRECTION AT THE INTERSECTION OF MD 424 AND MD 450 IN ANNE ARUNDEL COUNTY. ALL YELLOW FACED VEHICULAR TRAFFIC SIGNAL HEADS WILL BE UPGRADED TO BLACK FACED LED. MD 450 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR ALL APPROACHES. THIS OPERATION WILL REMAIN AND A NORTHBOUND PRE-EMPTION PHASE WILL BE ADDED.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS AND ASSOCIATED INTERFACE SHALL REMAIN. INSTALL A DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764 IN THE EXISTING CABINET.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran
Assistant District Engineer - Traffic
Phone: 410-841-1003

Mr. John Mays
District Utility Engineer
Phone: 410-841-1005

Mr. Charles George
Assistant District Engineer - Maintenance
Phone: 410-841-1002

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

The Power Company Representative is:
BALTIMORE GAS & ELECTRIC COMPANY
7317 PARKWAY DRIVE SOUTH
HANOVER, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	72 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN:
		1 EACH - ASSOCIATED SHIELD ASSEMBLY
		WEST, MD 450, RIGHT ARROW (30 IN. X 51 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY
		EAST, MD 450, LEFT ARROW (48 IN. X 75 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY
		EAST, MD 450, RIGHT ARROW (30 IN. X 51 IN.) POLE MOUNT
		1 EACH - ASSOCIATED SHIELD ASSEMBLY
		WEST, MD 450, LEFT ARROW (48 IN. X 75 IN.) POLE MOUNT

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO QUANTITY DESCRIPTION

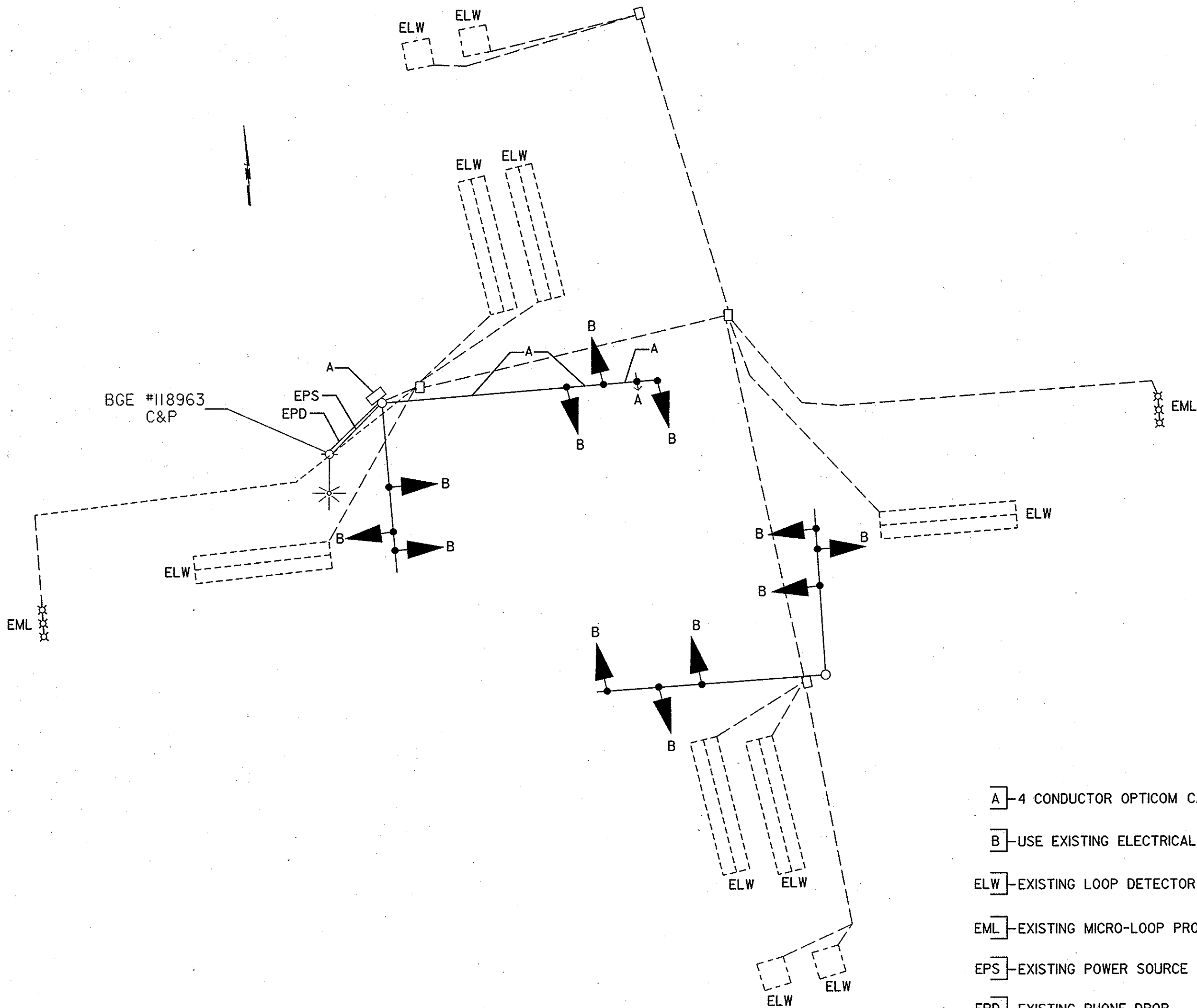
ALL REMOVED EQUIPMENT SHALL BECOME PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8002	24 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	16 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8008	1 EA	3M OPTICOM #764 DISCRIMINATOR MODULE
8009	2 EA	3M OPTICOM EMITTER SYSTEM 700 SERIES, VISIBLE LIGHT FILTER AND HARDWARE
8011	12 EA	8 INCH LED SIGNAL (R,Y,G) HEAD SECTION
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8033	90 LF	4 CONDUCTOR OPTICOM DETECTOR CABLE
8064	72 SF	INSTALL OVERHEAD SIGN
8066	1 EA	OPTICOM NO. 721 DETECTOR EYE

WIRING DIAGRAM



- A - 4 CONDUCTOR OPTICOM CABLE
- B - USE EXISTING ELECTRICAL CABLE
- ELW - EXISTING LOOP DETECTOR WIRE
- EML - EXISTING MICRO-LOOP PROBE
- EPS - EXISTING POWER SOURCE
- EPD - EXISTING PHONE DROP
- OPTICOM NO. 721 DETECTOR EYE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	
PHASE 1 AND 5	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 1 AND 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 1 AND 6	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 1 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 2 AND 5	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 2 AND 6	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 2 AND 6 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 3 AND 7	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 3 AND 7 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 3 AND 8	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 3 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 4 AND 7	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 7 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PHASE 4 AND 8	R	R	R	R	R	R	R	R	R	R	R	R	
PHASE 4 AND 8 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
PRE-EMPT PHASE 4+8	R	R	R	R	R	R	R	R	R	R	R	R	
PRE-EMPT PHASE 4+8 CHANGE	G	G	G	G	G	G	G	G	G	G	G	G	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

TOD No: AT782-14
SHA: AA445A51/B51

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 424 (DAVIDSONVILLE ROAD)
AND MD 450 (DEFENSE HIGHWAY)

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE 10/2005 CONTRACT NO. AT7825185

DESIGNED BY SBS COUNTY ANNE ARUNDEL
DRAWN BY SBS LOGMILE 02042405.85
CHECKED BY BAB T.I.M.S. NO. G931
F.A.P. NO. TOD NO.

DRAWING NO. TS-865E OF SHEET NO. 2 OF 2

STV Incorporated

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